



# New England Agricultural Statistics

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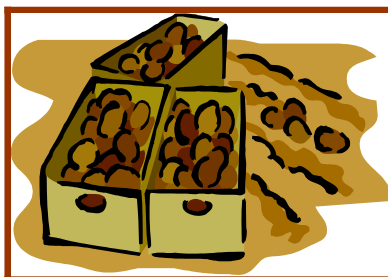
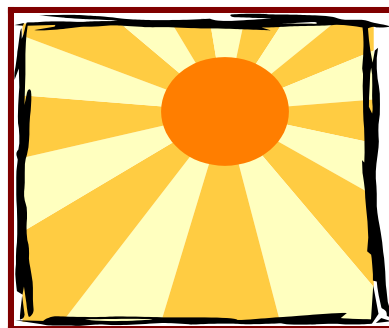
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## Maine Potatoes Acreage, Yield, Size and Grade, 2005 Crop January 12, 2006

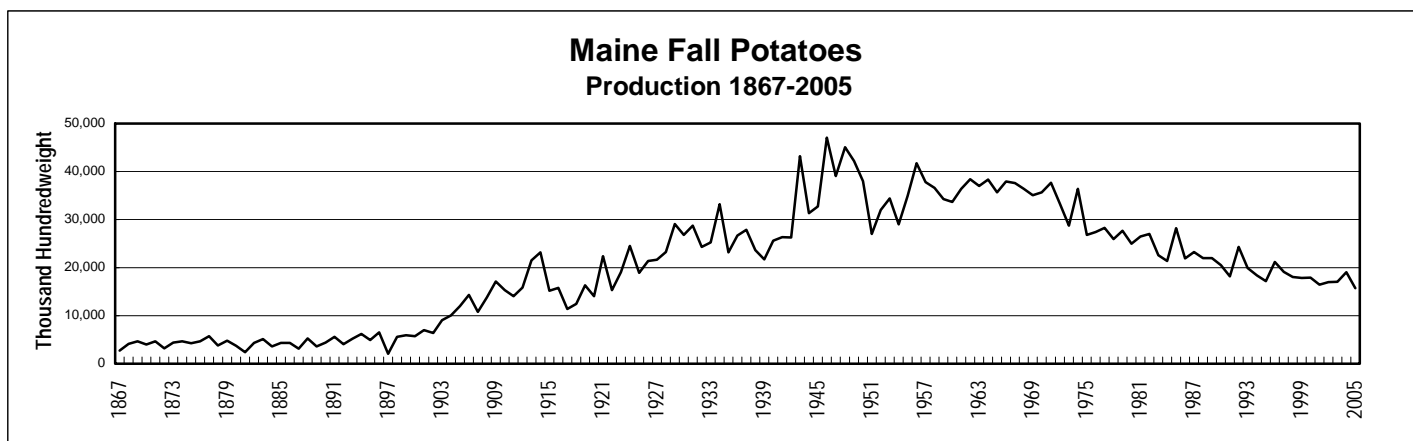
*A special "THANK YOU" goes to Maine growers who have helped us by participating in the Potato Objective Yield Survey program. The study estimates yield, size and grade from randomly selected hills that are dug just before harvest.*



This report is funded through a cooperative agreement with the Maine Department of Agriculture as a service to growers and others in the industry. It is published annually and is available on the internet in mid-January.

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*This is a monthly summary of New England agricultural statistics taken from nationwide reports issued by USDA's National Agricultural Statistics Service. All National reports and State newsletters are available on the Internet at: <http://www.nass.usda.gov>. National Reports can be ordered by calling 1-800-999-6779. How can you get these reports electronically?*

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## 2005 Maine Potatoes Acreage, Yield, Size and Grade, 2005 Crop

### FORWARD:

We are pleased to present the Maine Acreage, Yield, Size and Grade Report for the 2005 potato crop. Data contained in this report are based on the results of the Potato Objective Yield Survey, a project conducted annually since 1968. The National Potato Objective Yield program encompasses seven of the major fall potato producing states (Idaho, Maine, Minnesota, North Dakota, Oregon, Washington and Wisconsin) that grew 83 percent of the United States fall potato crop in 2005.

The 2005 Potato Objective Yield Survey in Maine consisted of 210 “samples” chosen by systematic random sampling. Each sample consisted of two independently located units. Within each unit, hill counts were made along a 20-foot length of the row, width of the row was measured, and three hills were harvested. Thus, tubers were harvested from six hills of potatoes for each sample. These potatoes were graded, sized, and weighed using strict laboratory procedures. After harvest, enumerators returned to one-fourth of the sample fields to obtain an objective indication of harvest loss. Tubers were collected from two units, each unit covering a three foot by six foot area, and sent to the lab for weighing.

The success of this project must be credited to the cooperation of many potato growers across the State of Maine. We sincerely appreciate their time and efforts in supplying crop information, and granting permission for field entry and sample diggings. The 2005 Maine Potato Objective Yield survey was under the leadership of Statistician Sherry Deane. Data collection was supervised by NASDA field supervisors Ola Hedstrom and Kay Reynolds. NASDA field enumerators included Keith Boulier, Deborah Belanger, Margaret Wolverton, Shannon Lion and Bill Turner. Lab supervision was under the direction of John Bourgoine. Robin Helrich was responsible for setting the estimates of acreage, yield, production, prices, and stocks. We would also like to recognize Lynne Arsenault for her assistance in preparing this publication.

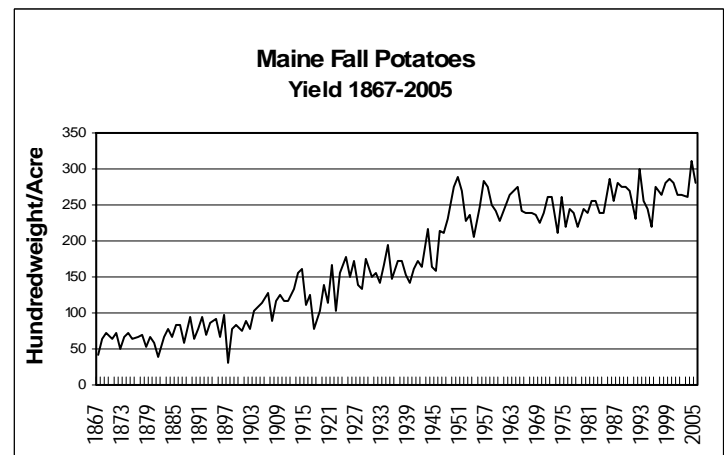
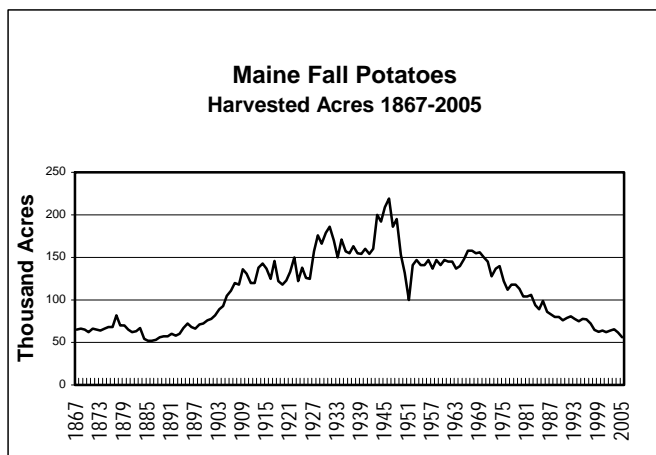


Table 1: MAINE POTATOES: Acres, Yield and Production, 2001 - 2005

Year	Area		Yield per Acre	Production
	Planted	Harvested		
	Acres		Cwt	1,000 Cwt
2001	62,500	62,000	265	16,430
2002	64,500	64,000	265	16,960
2003	66,000	65,500	260	17,030
2004	63,500	61,500	310	19,065
2005 <sup>1/</sup>	57,500	56,200	280	15,736

<sup>1/</sup> SOURCE: **Crop Production – Annual**, 8:30 a.m., January 12, 2006, National Agricultural Statistics Service, USDA

Table 2: MAINE POTATOES: Percent of Acres Planted by Variety, 2001 – 2005

Variety and Type	2001	2002	2003	2004	2005
<b>By Variety:</b>	Percent				
Russet Burbank	29.1	36.4	33.2	36.7	42.5
Frito-Lay, All	12.6	10.9	11.9	11.5	17.1
Shepody	11.4	9.2	9.8	9.3	7.2
Atlantic	3.6	3.4	3.5	3.0	3.5
Superior	8.9	7.2	6.1	3.0	3.4
Yukon Gold	2.2	1.4	2.0	3.3	2.8
Ontario	7.3	9.7	8.3	5.5	2.8
Goldrush	1.7	1.1	1.6	1.9	2.7
Norwis	2.4	2.2	2.4	2.2	2.4
Katahdin	3.9	1.6	2.5	2.5	2.4
Snowden	1.5	1.4	2.2	2.3	2.2
Russet Norkotah	3.5	4.7	4.4	3.0	1.6
Reba (NY 87)	1/	1/	1.7	1.7	1.4
Norland	1.6	1.6	1.9	2.5	2.3
Monona	1/	1/	1/	1.7	1.0
Chieftain	2.2	1.8	1.4	1.3	1/
Centennial Russet	1/	1/	1/	1.2	1/
Mainstay	1/	1/	1/	1.0	1/
Other Varieties	8.1	7.4	7.1	6.4	4.7
Total Varieties	100.0	100.0	100.0	100.0	100.0
<b>By Type:</b>	Percent				
Reds	5.0	4.0	4.0	5.5	3.5
White (Long and Round)	60.0	53.0	56.0	51.0	49.5
Russet Varieties	35.0	43.0	40.0	43.5	47.0
Total Varieties	100.0	100.0	100.0	100.0	100.0

<sup>1/</sup> Included with other varieties.

**Table 3: MAINE POTATOES: Number of Tubers <sup>1/</sup> per Hill and Hills per Acre, by Type, 2001 - 2005**

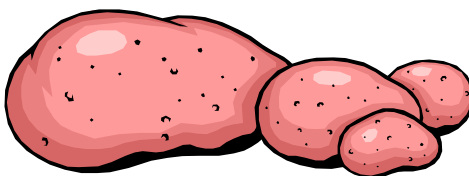
Year	Round Whites		Long Whites		Russets		All Varieties <sup>2/</sup>	
	Tubers <sup>1/</sup> per Hill	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre
2001	6.2	13,509	6.4	12,722	9.4	9,304	7.5	11,862
2002	7.4	13,803	5.6	12,230	10.7	9,596	8.5	11,948
2003	7.8	13,521	6.8	12,021	10.5	9,731	8.9	11,729
2004	8.5	13,609	6.8	13,024	10.7	10,012	9.3	11,969
2005	7.3	12,494	6.7	10,402	9.8	9,007	8.6	10,595

<sup>1/</sup> Tubers 1½ inches and over.<sup>2/</sup> Includes Red varieties.**Table 4A: MAINE POTATOES: Percent of Net Yield <sup>1/</sup> by Weight within Size Groups Round Whites, 2001 – 2005**

Size	Round Whites				
	2001	2002	2003	2004	2005
	Percent				
1 ½" - under 1 ⅞"	2	4	3	2	2
1 ⅞" - under 2"	3	4	4	3	3
2" - under 2 ¼"	9	14	14	10	9
2 ¼" - under 2 ½"	13	22	20	16	15
2 ½" - under 3 ½"	62	50	55	63	61
3 ½" - under 4"	9	4	3	6	9
4" and over	2	2	1	2/	1

<sup>1/</sup> Adjusted for harvest loss.<sup>2/</sup> Less than one percent.**Table 4B: MAINE POTATOES: Percent of Net Yield <sup>1/</sup> by Weight within Size Groups Long Whites and Russets, 2001 – 2005**

Size	Long Whites ( <i>Shepody</i> )					Russets				
	2001	2002	2003	2004	2005	2001	2002	2003	2004	2005
	Percent									
1 ½" - under 1 ⅞"	3	8	6	1	5	4	6	10	3	4
1 ⅞" - under 2"	8	8	5	2	1	6	6	8	4	4
2" and over:										
4 oz - under 6 oz <sup>2/</sup>	36	38	30	15	27	31	36	33	29	32
6 oz - under 8 oz	19	22	25	21	18	18	20	21	21	18
8 oz - under 10 oz	17	9	19	18	19	16	12	11	15	15
10 oz and over	17					25				
10 oz - under 12 oz <sup>3/</sup>		7	4	17	13		8	8	9	10
12 oz - under 14 oz <sup>3/</sup>		2	8	8	9		5	5	6	6
14 oz and over <sup>3/</sup>		6	3	18	8		7	4	13	11

<sup>1/</sup> Adjusted for harvest loss.<sup>2/</sup> Includes potatoes two inches or greater weighing less than four ounces.<sup>3/</sup> Unavailable prior to 2002.

**Table 5: MAINE POTATOES: Percent of Net Yield by Weight within Grade, <sup>1/</sup> by Type, 2001 - 2005**

Grade	Round Whites					Long Whites					Russets				
	2001	2002	2003	2004	2005	2001	2002	2003	2004	2005	2001	2002	2003	2004	2005
	Percent														
United States No. 1 <sup>2/</sup>	83	83	77	85	83	61	73	62	69	81	75	77	61	70	74
United States No. 2 <sup>3/</sup>	10	11	11	8	8	20	19	19	11	11	15	16	22	13	16
Cull <sup>4/</sup>	7	6	12	7	9	19	8	19	20	8	10	7	17	17	10

<sup>1/</sup> Reflects condition before harvest or handling damage.<sup>2/</sup> Potatoes which meet the requirements for US #1, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.<sup>3/</sup> Potatoes which meet the requirements for US #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.<sup>4/</sup> Potatoes not meeting the requirements for US #1 or US #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.**Table 6A: MAINE POTATOES: Harvest Loss <sup>1/</sup> by Size, Round Whites, 2001 – 2005**

Size	Round Whites				
	2001	2002	2003	2004	2005
	Cwt per Acre				
1 1/2" – under 1 7/8"	4	4	4	3	1
1 7/8" – under 2"	2	3	2	2	1
2" – under 2 1/4"	1	3	2	3	4
2 1/4" – under 2 1/2"	2	2	3	3	3
2 1/2" – under 3 1/2"	3	4	4	3	6
3 1/2" – under 4"	0	0	0	1	0
4" and over	0	0	0	0	0
<b>Total <sup>1/</sup></b>	12	16	15	15	15

<sup>1/</sup> Includes United States No. 1, United States No. 2 and Culls.**Table 6B: MAINE POTATOES: Harvest Loss <sup>1/</sup> by Size, Long Whites and Russets, 2001 – 2005**

Size	Long Whites					Russets				
	2001	2002	2003	2004	2005	2001	2002	2003	2004	2005
	Percent									
1 1/2" - under 1 7/8"						9	5	5	8	3
1 7/8" - under 2"						2	3	2	4	2
2" and over:										
4 oz - under 6 oz <sup>2/</sup>						5	6	7	9	6
6 oz - under 8 oz						3	1	1	4	2
8 oz - under 10 oz						1	4/	3	1	1
10 oz and over						0	0	4	4	1
<b>Total <sup>3/</sup></b>	14	16	15	37	17	20	15	22	30	15

<sup>1/</sup> Includes United States No. 1, United States No. 2, and Culls.<sup>2/</sup> Includes potatoes two inches or greater weighing less than four ounces.<sup>3/</sup> Long white totals by size unavailable.<sup>4/</sup> Less than 0.5 cwt per acre.

**Table 7: MAINE POTATOES: Planting Progress, 2001 - 2005**

Size	Percent of Acres Planted Weekly					Accumulated Percent of Acres				
	2001	2002	2003	2004	2005	2001	2002	2003	2004	2005
	Percent									
Before May 1	1	0	0	0	0	1	0	0	0	0
May 8	10	22	4	4	0	11	22	4	4	0
May 15	36	23	6	40	5	47	45	10	44	5
May 22	35	22	40	37	5	82	67	50	81	10
May 29	12	24	36	14	15	94	91	86	95	25
June 5	2	8	12	3	50	96	99	98	98	50
after June 5	4	1	2	2	25	100	100	100	100	100

**Table 8: <sup>1/</sup> MAINE POTATOES: Potato Production and Stocks Held by Growers, Local Dealers and Processors, by Month, 2000 - 2004 Crop Years**

Crop Year	Production	Stocks Held by Growers, Local Dealers, and Processors						
		Year	Following Year					
		December 1	January 1	February 1	March 1	April 1	May 1	June 1
		Percent						
2000	17,920	14,100	12,500	10,900	8,700	6,600	4,000	1,900
2001	16,430	12,200	10,800	8,900	7,100	5,300	3,300	1,800
2002	16,960	12,600	11,200	9,500	8,000	6,300	3,900	2,100
2003	17,030	13,500	12,100	10,500	8,900	6,500	4,100	2,300
2004	19,065	15,000	12,800	11,100	9,400	7,500	5,000	2,900

<sup>1/</sup> Data in this table is not derived from the Potato Objective Yield Survey; this data is derived from the monthly Potato Stocks/Price survey also conducted by the New England Agricultural Statistics Service.

Source: **Potato Stocks**, 3:00 p.m. mid-month December – June, National Agricultural Statistics Service, USDA.

**Potatoes**, 3:00 p.m., September 22, 2005, National Agricultural Statistics Service, USDA.

**Table 9: <sup>1/</sup> MAINE POTATOES: Prices Received, 2000 - 2004 Crop Years**

Crop Year	Prices Received <sup>2/</sup> by Farmers for Potatoes, Monthly and Marketing Year Average											
	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Market Year Average
	Dollars Per Cwt											
2000	5.80	5.45	5.50	5.55	5.60	5.50	5.90	6.20	6.80	7.30	7.00	6.15
2001	6.20	5.70	6.05	6.65	7.50	7.75	8.30	8.65	9.45	8.05	7.80	7.65
2002	5.75	5.45	5.60	6.65	6.95	7.10	7.10	7.45	8.10	8.15	7.40	7.05
2003	6.00	5.25	5.45	5.85	5.70	5.80	5.70	6.10	6.30	6.75	7.05	6.05
2004	5.90	5.15	5.65	6.15	6.35	5.90	6.55	6.60	6.95	7.30	7.40	6.50

<sup>1/</sup> Data in this table is not derived from the Potato Objective Yield Survey; this data is derived from the monthly Potato Stocks/Price survey also conducted by the New England Agricultural Statistics Service.

<sup>2/</sup> Average price of potatoes sold for all uses, including table stock, processing, seed and livestock feed.

SOURCE: **Agricultural Prices**, 3:00 p.m., late-month September - June, National Agricultural Statistics Service, USDA

**Potatoes**, 3:00 p.m., September 22, 2005, National Agricultural Statistics Service, USDA.

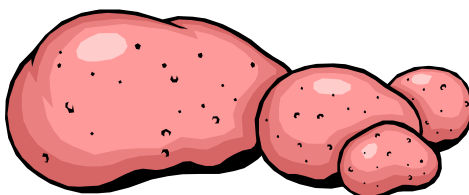


Table 10: <sup>1/</sup>FALL POTATOES: Acreage, Yield, and Production, 2004 - 2005

State	Area Planted		Area Harvested		Yield per Acre		Production	
	2004	2005	2004	2005	2004	2005	2004	2005
	1,000 Acres				Cwt		1,000 Cwt	
California	7.6	7.2	7.6	7.2	480	450	3,648	3,240
Colorado	65.0	58.2	64.3	57.9	370	385	23,791	22,292
Idaho	355.0	325.0	353.0	323.0	374	362	131,970	116,975
<b>Maine</b>	<b>63.5</b>	<b>57.5</b>	<b>61.5</b>	<b>56.2</b>	<b>310</b>	<b>280</b>	<b>19,065</b>	<b>15,736</b>
<b>Massachusetts</b>	<b>2.6</b>	<b>2.5</b>	<b>2.5</b>	<b>2.4</b>	<b>320</b>	<b>260</b>	<b>800</b>	<b>624</b>
Michigan	43.0	44.0	42.0	43.5	325	320	13,650	13,920
Minnesota	47.0	46.0	44.0	43.0	430	410	18,920	17,630
Montana	10.7	11.0	10.6	10.9	335	315	3,551	3,434
Nebraska	22.0	19.5	21.6	19.4	430	425	9,288	8,245
New York	20.0	20.5	19.2	20.1	270	260	5,184	5,226
North Dakota	105.0	92.0	101.0	82.0	265	250	26,765	20,500
Ohio	3.7	3.7	3.6	3.6	300	240	1,080	864
Oregon	37.0	37.3	37.0	37.1	534	594	19,775	22,023
Pennsylvania	12.0	11.5	11.0	11.0	240	250	2,640	2,750
<b>Rhode Island</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>290</b>	<b>210</b>	<b>145</b>	<b>105</b>
Washington	160.0	154.0	159.0	154.0	590	620	93,810	95,480
Wisconsin	71.0	68.0	70.0	68.0	435	410	30,450	27,880
All Other Fall States <sup>2/</sup>	14.1	10.2	13.9	9.7	412	423	5,721	4,102
United States Fall Crop	1,039.7	968.6	1,022.3	949.5	401	401	410,253	381,026

<sup>1/</sup> Data in this table is not derived from the Potato Objective Yield Survey; data is derived from other end of year surveys conducted by the New England Agricultural Statistics Service.

<sup>2/</sup> 2004 includes IN, NV, NM. Estimates discontinued for SD and UT in 2004. Estimates discontinued for IN in 2005.

SOURCE: **Crop Production – Annual**, 8:30 a.m., January 12, 2006, National Agricultural Statistics Service, USDA.

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